## WHAT IS CLAIMED IS:

- 1 1. An energy management system in an energy distribution network
- 2 (DSTR) comprising at least one energy source (SE1) and a number of energy
- 3 consumers (K1, K2, K3) distributed in different consumption locations such as
- 4 homes, the system comprising:
- 5 distributed energy operation means (RXE) and distributed
- 6 information transmission means (RTI) installed in each consumption location;
- 7 centralized distributed energy management means (CGED);
- 8 centralized information transmission means (CTI) which transmits
- 9 control signals (SC) to the distributed information transmission means (RTI) by
- 10 remote satellite broadcasting;
- 11 the distributed information transmission means (RTI) passing the
- 12 control signals (SC) to the distributed energy operation means (RXE).
- 1 2. The energy management system according to claim 1, wherein the
- 2 distributed energy operation means (RXE) comprise distributed energy consumption
- 3 means (RKE) and distributed consumed energy management means (RGE).

- The energy management system according to claim 1, wherein the distributed information transmission means (RTI) includes means for transposing the received control signals (SC) into control signals (SCT1, SCT3) by changing a physical support and/or a format and/or a coding and/or a protocol of the control signals, and means for locally redistributing the transposed control signals (SCT1, SCT3) for transmission to the distributed energy operation means (RXE).
- 1 4. The energy management system according to claim 3, wherein the 2 means for transposing comprises a universal modulator demodulator.
- 5. The energy management system according to claim 4, wherein the means for locally redistributing comprise dedicated transmission channels (V1, V3, VTEL) at each consumption location which connect the universal modulator demodulator (UMD) to the various distributed energy operation means (RXE).
- 1 6. The energy management system according to claim 5, wherein at least
  2 two of these dedicated transmission channels (V1, VTEL) use different physical
  3 supports and/or formats and/or coding and/or protocols.

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- 7. The energy management system according to claim 3, wherein at least some of the control signals (SC) comprise identification and addressing data, and wherein the distributed information transmission means (RTI) selectively transmit the transposed control signals corresponding to the distributed energy operation means (RXE) as a function of the identification or addressing data contained in them.
- 1 8. The energy management system according to claim 3 wherein the 2 control signals (SC) include rate data.
- 9. The energy management system according to claim 2, wherein the distributed information transmission means (RTI) performs a local remote transfer operation by which the distributed transmission means (RTI) collect consumed energy meter reading data (MK) output from the distributed consumed energy management means (RGE).
- 1 10. The energy management system according to claim 2, wherein the distributed information transmission means (RTI) performs a remote reading operation by which consumed energy meter reading data (MK) derived from the distributed consumed energy management means (RGE) are transposed by changing

- 5 the physical support and/or the format and/or the coding and/or the protocol, and are
- 6 retransmitted to the centralized information transmission means (CTI).
- 1 11. The energy management system according to claim 10, wherein the
- 2 distributed information transmission means (RTI) interfaces with a telephone line
- 3 (VTEL) for transmitting transposed consumed energy meter reading data (MK) to
- 4 the centralized transmission means (CTI).
- 1 12. The energy management system according to claim 1, wherein an
- 2 energy supplier (F2) at least partly operating the energy source (SE1) to which an
- 3 energy consumer (K1) is connected is identified by an identification code (IDE2)
- 4 that is written in the distributed energy operation means (RXE), and/or in the
- 5 distributed information transmission means (RTI) belonging to this consumer (K1),
- 6 in association with a meter reading of a consumed energy quantity (MK).
- 1 13. The energy management system according to claim 1, wherein the
- 2 energy distribution network (DSTR) is an electrical energy distribution network.
- 1 14. The energy management system according to claim 13, wherein each
- 2 consumption location is supplied with energy through an electrical line (LEL1), and
- 3 the distributed information transmission means (RTI) from at least a first of the

- 4 consumption locations include a local transceiver (RELEL) connected to this
- 5 electrical line (LEL1) and capable of receiving signals transposed from the control
- 6 signals.
- 1 15. The energy management system according to claim 14, wherein the
- 2 local transceiver (RELEL) at the first consumption location communicates with the
- 3 distributed energy operation means (RXE) at this first consumption location through
- 4 the electrical line (LEL1).
- 1 16. The energy management system according to claim 1, wherein the
- 2 distributed information transmission means (RTI) and/or the distributed energy
- 3 operation means (RXE) store at least one item of information belonging to the set of
- 4 information composed of an identification of an energy producer (P1, P2), an
- 5 identification of an energy supplier (F1, F2), an energy rate identification, and an
- 6 identification of the type of the distributed energy operation means (RXE).
- 1 17. The energy management system according to claim 1 as applied to
- 2 check energy exchanges between at least two countries.
- 1 18. The energy management system according to claim 1 as applied to
- 2 trigger remote operations to read energy consumption.

1	19. An energy management system, comprising:
2	a centralized information transceiver which operates to issue energy
3	management control signals for wireless transmission;
4	a modem located at energy consumption location, the modem
5	receiving the wirelessly transmitted energy management control signals; and
6	an energy regulation controller also located at the energy
7	consumption location and connected to the modem, the energy regulation controller
8	operating in response to modem received energy management control signals to
9	regulate consumption of energy consuming devices located within the energy
10	consumption location.
1	20. The energy management system of claim 19 further including an
2	energy meter device also located with at the energy consumption location and
3	connected to the modern for communication, the energy meter device operating to
4	measure an amount of energy consumed by the energy consumption location, the

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measured amount of energy data being communicated to the modem.

- 1 21. The energy management system of claim 20 wherein the energy 2 meter device is connected to the modem for communication through energy 3 regulation controller.
- 1 22. The energy management system of claim 20 wherein the energy 2 meter device is connected to the modern through a transceiver device.
- 1 23. The energy management system of claim 22 wherein the transceiver 2 device facilitates communication between the energy meter device and the modem 3 over energy delivery lines within the energy consumption location.
- 1 24. The energy management system of claim 19 wherein the modem is 2 connected for communication over a telephone line.
- 1 25. The energy management system of claim 19 wherein the energy regulation controller operates in response to modem received energy management control signals to regulate consumption by enabling/interrupting consumption.